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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-12-03-03**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara and surrounding areas in Ward No -01 Of yelahanka Sub Division
Agency	:	Sri.Nagoor Lokanadha Reddy Plat no ;102,1st Floor No;02 MSNR Enclave,2nd cross,Manorayanapalya.R.T.Nagara,Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000057/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-10-18
Sample ID No	:	2018-12-03-03 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	08-10-18
Total weight taken	:	1000 grams

Date: 10-10-18

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	22	22	2.2	97.8	90-100	90-100	90-100	95-100
3	2.36 mm	185	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	205	412	41.2	58.8	30-70	55-90	75-100	90-100
5	600 micron	218	630	63.0	37.0	15-34	35-59	60-79	80-100
6	300 micron	142	772	77.2	22.8	5-20	8-30	12-40	15-50
7	150 micron	173	945	94.5	5.5	0-10	0-10	0-10	0-15
8	Pan	55	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-03-03** **Date: 10-10-18**

Sample ID No : 2018-12-03-03 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.38	-
2	Specific Gravity	2.51	-
3	Material finer than 75 micron(%)	4.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

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TEST RESULTS OF STEEL

Lab ID : CP-2018-12-03-03 **Date: 10-10-18**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthinagara and surrounding areas in Ward No -01 Of yelahanka Sub Division

Agency : Sri.Nagoor Lokanadha Reddy Plat no ;102,1st Floor No;02 MSNR Enclave,2nd cross,Manorayanapalya.R.T.Nagara,Bangalore-32.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/000057/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-10-18

Sample ID No : 2018-12-03-03 /04

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 09-10-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.393	511	653	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	526	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	543	669	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/10/2018

Lab ID	:	CP-2018-12-03-03
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara and surrounding areas in Ward No -01 Of yelahanka Sub Division
Agency	:	Sri.Nagoor Lokanadha Reddy Plat no ;102,1st Floor No;02 MSNR Enclave,2nd cross,Manorayanapalya.R.T.Nagara,Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000057/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-10-18
Sample ID No	:	2018-12-03-03 /01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Concrete	M20	15/10/2018	22/10/2018	150.01 X 149.04 X 150.40	22358	8.776	413.4	18.5	18.5
2	Drain Concrete	M20	15/10/2018	22/10/2018	150.22 X 150.68 X 150.76	22635	8.869	427.7	18.9	
3	Drain Concrete	M20	15/10/2018	22/10/2018	151.58 X 151.03 X 149.10	22893	8.609	413.6	18.1	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/11/2018

Lab ID	:	CP-2018-12-03-03
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara and surrounding areas in Ward No -01 Of yelahanka Sub Division
Agency	:	Sri.Nagoor Lokanadha Reddy Plat no ;102,1st Floor No;02 MSNR Enclave,2nd cross,Manorayanapalya.R.T.Nagara,Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/000057/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-10-18
Sample ID No	:	2018-12-03-03 /02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	15/10/2018	12/11/2018	149.48 X 151.41 X 151.97	22633	**8.155**	529.6	23.4	
2	Drain Concrete	M20	15/10/2018	12/11/2018	151.95 X 150.35 X 150.68	22845	**8.315**	523.1	22.9	23.3
3	Drain Concrete	M20	15/10/2018	12/11/2018	150.86 X 150.93 X 151.34	22769	**8.897**	540.3	23.7	

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